

REMARKS

This Application has been carefully reviewed in light of the Final Action dated March 9, 2005. In order to advance prosecution of the present Application, Claims 1, 9, 18, and 22 have been amended. Applicant respectfully requests reconsideration and favorable action for this Application.

Claims 18-20 stand rejected under 35 U.S.C. §102(e) as being anticipated by Barroso, et al. Independent Claim 18 recites ". . . a resource manager operable to invalidate outdated data from the local cache to maintain coherence with the processor memory without receiving an invalidation message." By contrast, the Barroso, et al. application only discloses invalidating data when the data has changed and not when it is outdated as provided in the claimed invention. Further, the Barroso, et al. application requires the use of invalidation messages in order to invalidate data. Support for the above recitation can be found at page 16, lines 12-19, of Applicant's specification. Therefore, Applicant respectfully submits that Claims 18-20 are not anticipated by the Barroso, et al. application.

Claims 1-4, 6, 7, 9-13, 15, 16, and 21-25 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Barroso, et al. in view of Bourne, et al. Independent Claims 1, 9, and 22 recite in general the ability to invalidate the data at the I/O interfaces upon expiration of a time interval and identify the data as free in the processor memory system upon expiration of the time interval without sending any invalidation messages. By contrast, the Barroso, et al. application merely maintains coherence whenever data is changed and not through a timed access technique as provided in the claimed invention. To support the deficiencies of the Barroso, et al. patent, the Examiner cites the Bourne, et al.

application for its association of a time limit with a fragment in a cache. However, the Bourne, et al. application does not disclose a coherence domain that includes I/O interfaces and requires the use of invalidating messages to invalidate data in caches. Thus, the structure proposed by the Examiner of placing the time limit for a cache fragment technique of the Bourne, et al. application into the scalable architecture of the Barroso, et al. application would still lack an ability to invalidate data in I/O caches in a coherence domain and identify data as free in memory upon expiration of a time interval without using invalidation messages as required in the claimed invention. Support for the above recitation can be found at page 16, lines 12-19, of Applicant's specification. Therefore, Applicant respectfully submits that Claims 1-4, 6, 7, 9-13, 15, 16, and 21-25 are patentably distinct from the proposed Barroso, et al. - Bourne, et al. combination.

Claims 5 and 14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Barroso, et al. in view of Bourne, et al. and further in view of Culler, et al. Independent Claim 1, from which Claim 5 depends, and Independent Claim 9, from which Claim 14 depends, have been shown above to be patentably distinct from the proposed Barroso, et al. - Bourne, et al. combination. Moreover, the Culler, et al. paper does not disclose any additional material combinable with either the Barroso, et al. or Bourne, et al. applications that would be material to patentability of these claims. Therefore, Applicant respectfully submits that Claims 5 and 14 are patentably distinct from the proposed Barroso, et al. - Bourne, et al. - Culler, et al. combination.

Claims 8 and 17 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Barroso, et al. in view of Bourne, et

al. and further in view of Sharma, et al. Independent Claim 1, from which Claim 8 depends, and Independent Claim 9, from which Claim 17 depends, have been shown above to be patentably distinct from the proposed Barroso, et al. - Bourne, et al. combination. Moreover, the Sharma, et al. patent does not disclose any additional material combinable with either the Barroso, et al. or Bourne, et al. applications that would be material to patentability of these claims. Therefore, Applicant respectfully submits that Claims 8 and 17 are patentably distinct from the proposed Barroso, et al. - Bourne, et al. - Sharma, et al. combination.

This Response to Examiner's Final Action is necessary to address the new grounds of rejection and newly cited art raised by the Examiner. This Response to Examiner's Final Action could not have been presented earlier as the Examiner has only now raised the new grounds of rejected and identified new art in support thereof.

CONCLUSION

Applicant has now made an earnest attempt to place the Application in condition for allowance. For the foregoing reasons and for other reasons clearly apparent, Applicant respectfully requests reconsideration and full allowance of all pending claims.

The Commissioner is hereby authorized to charge any amount required or credit any overpayment to Deposit Account No. 02-0378 of BAKER BOTTS L.L.P.

Respectfully submitted,

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